

105VR/KR-V5090

ADJUSTMENT

FM SECTION INPUT SELECTOR : FM MODE X05-4700

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISCRIMINATOR	(A) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±75 kHz DEV (OTHER TYPE)	Connect a DC voltmeter between pin 1 and pin2 of CN2.	MONO 98.0 MHz	L31	0V	(a)
2	DISTORTION (STEREO)	(B) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±67.5 kHz DEV PILOT ±7.5 kHz DEV OTHER TYPE	(E)	AUTO 98.0 MHz	T 1 (A1)	Minimum distortion.	(a)

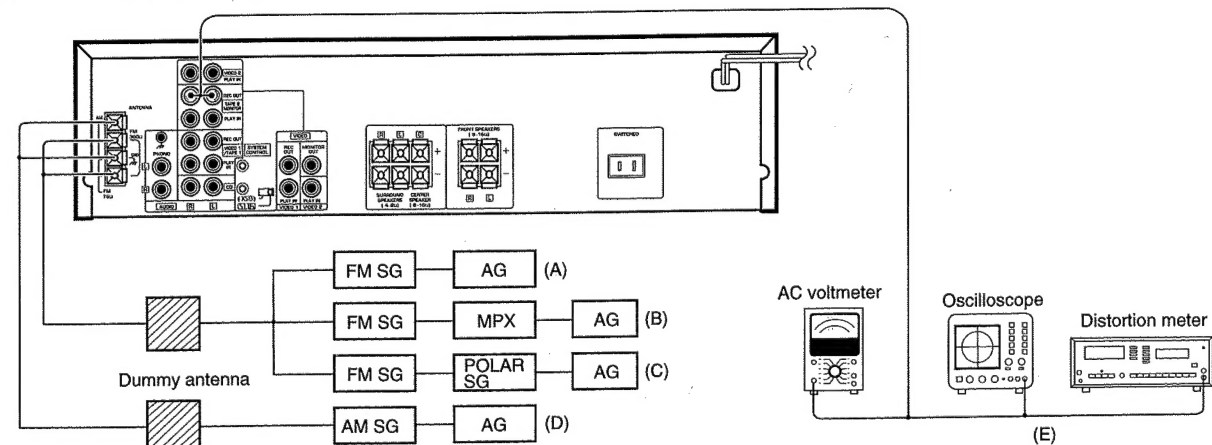
X05-4690

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISTORTION (STEREO)	(B) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±67.5 kHz DEV PILOT: ±7.5 kHz DEV	(E)	AUTO 98.0 MHz	T1 (A1)	Minimum distortion.	(a)

POLAR UNIT X04-1313 Q TYPE (65MHz~74MHz BAND)

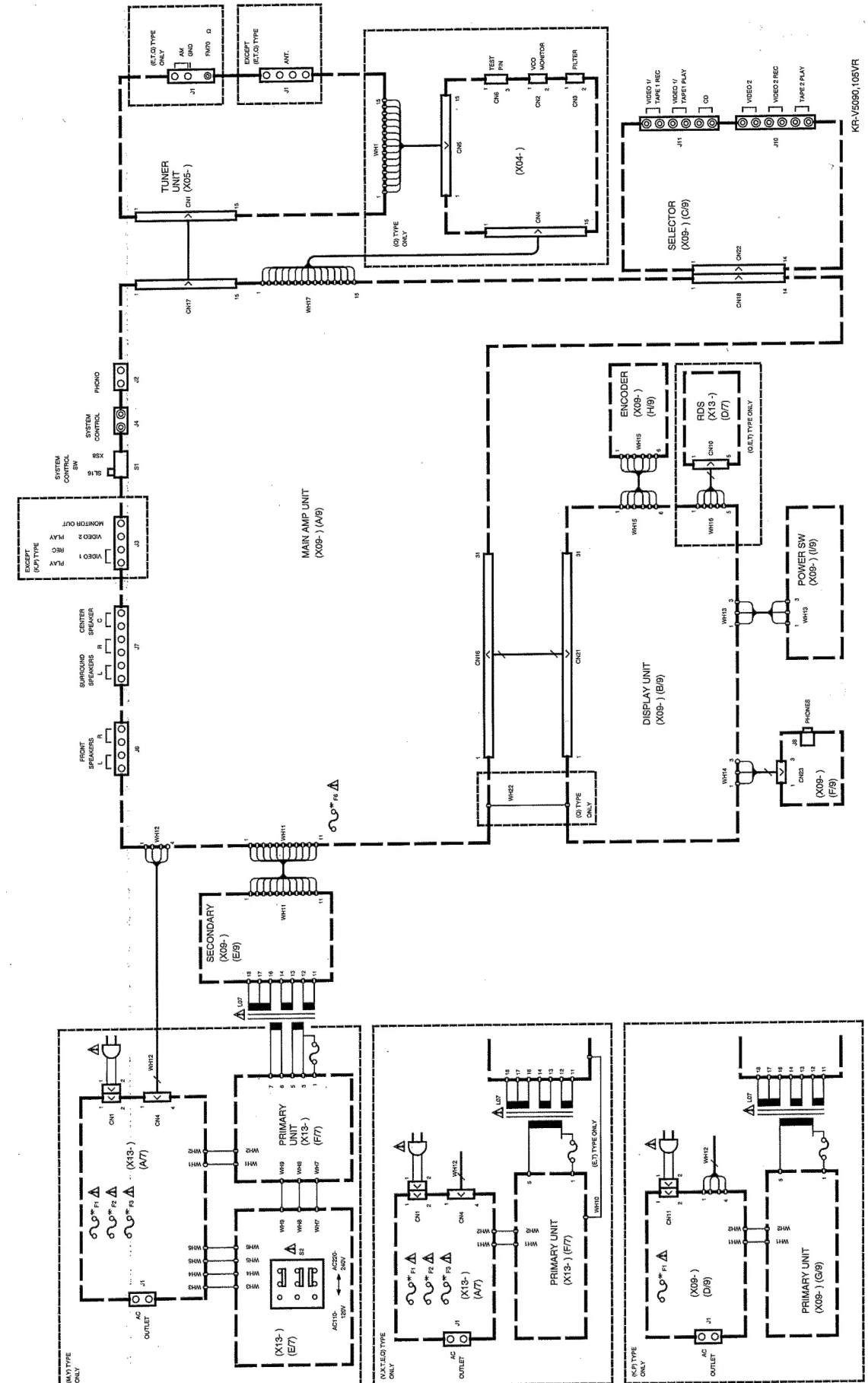
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	VCO	(C) 69 MHz, 60dBμ (ANT INPUT) 1 kHz, 0 kHz DEV SUB, 0 kHz DEV	Connect a frequency counter to VCO monitor (CN2).	AUTO 69 MHz	VR 2	Adjust it the frequency counter reads 31.25 kHz ±100 kHz.	
2	SEPARATION	(C) 69 MHz, 60dBμ (ANT INPUT) 1 kHz, 40 kHz DEV SUB, 10 kHz DEV Select : L or R	Connect a oscilloscope to TUNER OUT (CN6).	AUTO 69 MHz	TC 1	Minimum crosstalk.	
3	SEPARATION	(C) SAME AS ABOVE	Connect a oscilloscope to TUNER OUT (CN6).	AUTO 69 MHz	VR 1	Minimum crosstalk.	

INSTRUMENT CONNECTION

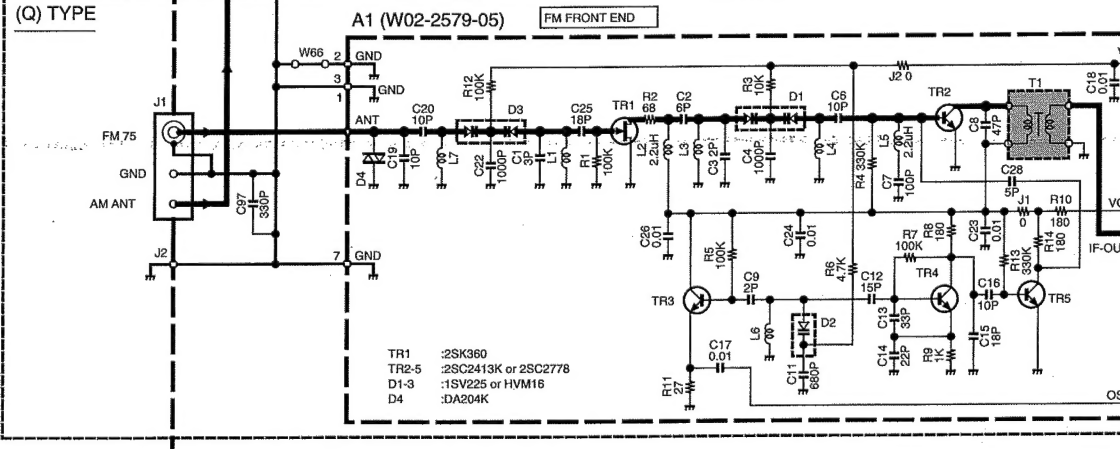


105VR/KR-V5090

WIRING DIAGRAM



A1 (W02-2579-05)

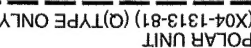
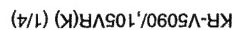


VT VOLTAGE		
BAND	FREQ	VT
FM	LF	2.2V(0.8V)
	HF	7.5V
AM	LF	1.2V
	HF	4.8V

() Q TYPE

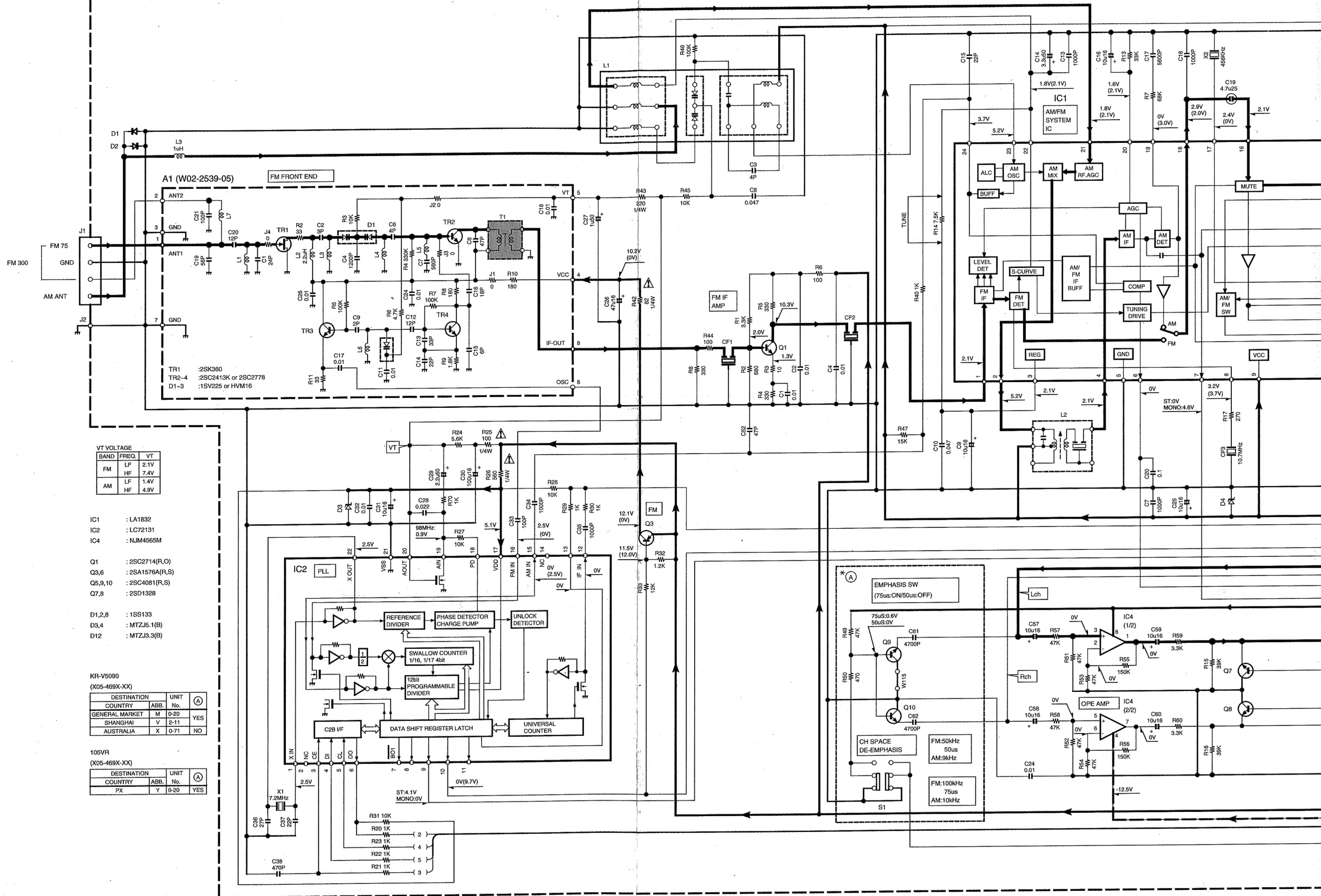
D1,33,61,62	: 1SS133
D31	: MTZJ8.2(B)
D32	: MA111
D81	: MTZJ5.1(B)
D101	: MTZJ3.3(B)

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

105VR (X05-470X-XX)

(K,P,T,TYPE)
X09-A/9
-CN17

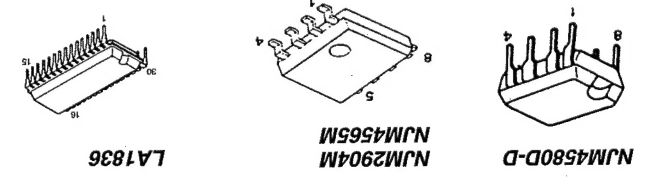
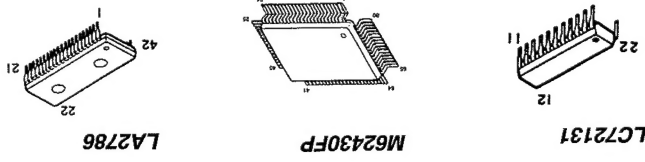
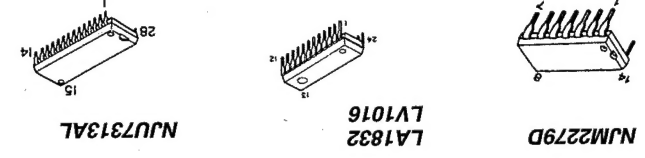
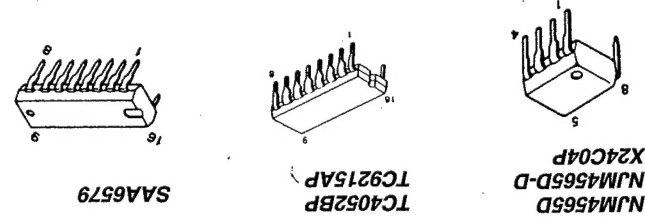
(X05-469X-XX) : M,V,X,Y TYPE



105VR/KR-V5090

KENWOOD

Y05-3270-10



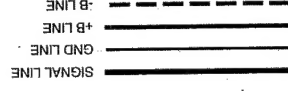
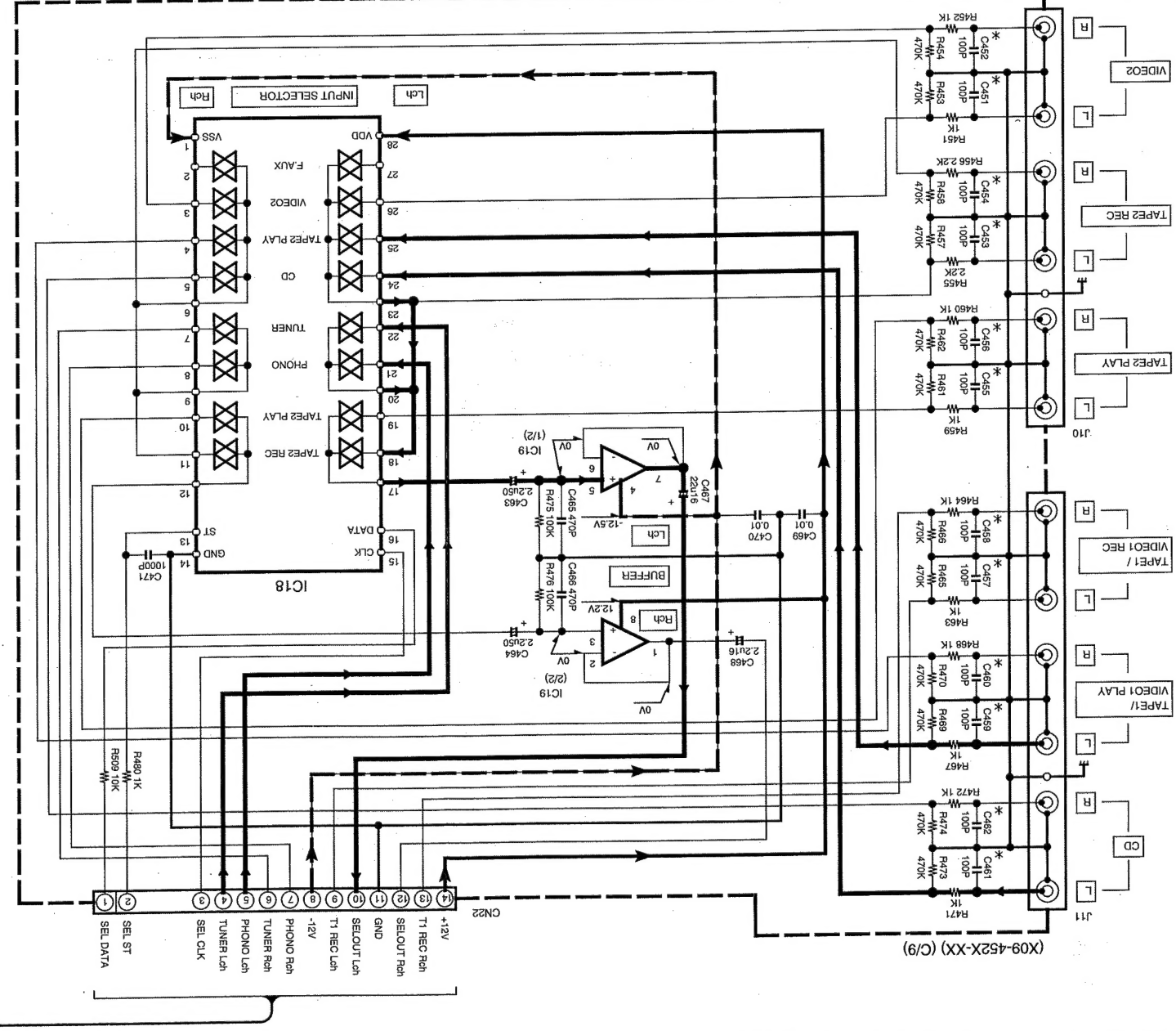
MODE	CARRIER	FREQUENCY	MODULATION	ANT INPUT
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB
F-M	98MHz	1kHz	STEREO 67.5kHz(PILOT)	60dB

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instrument used or on the product. The value shown in () is actual reading measured in the AM mode.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

X09-A/9
-CN18
3/4
D

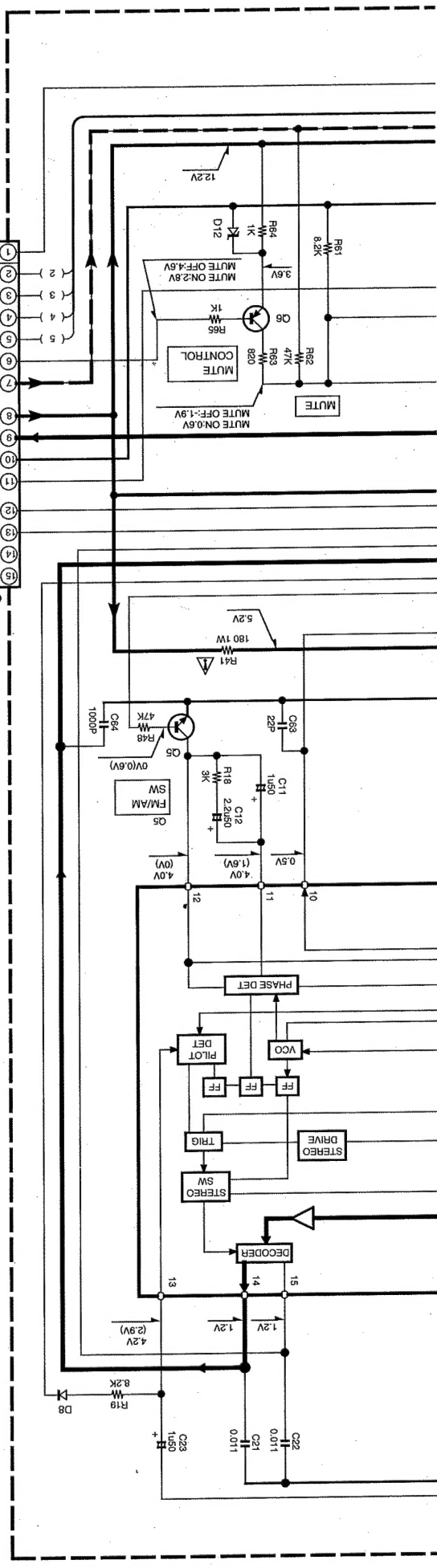
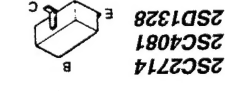
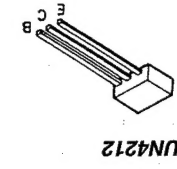
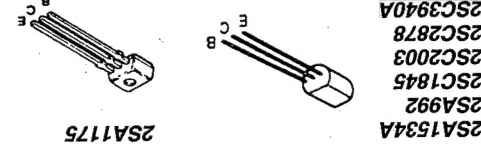
X09-A/7
-CN17
3/4
C

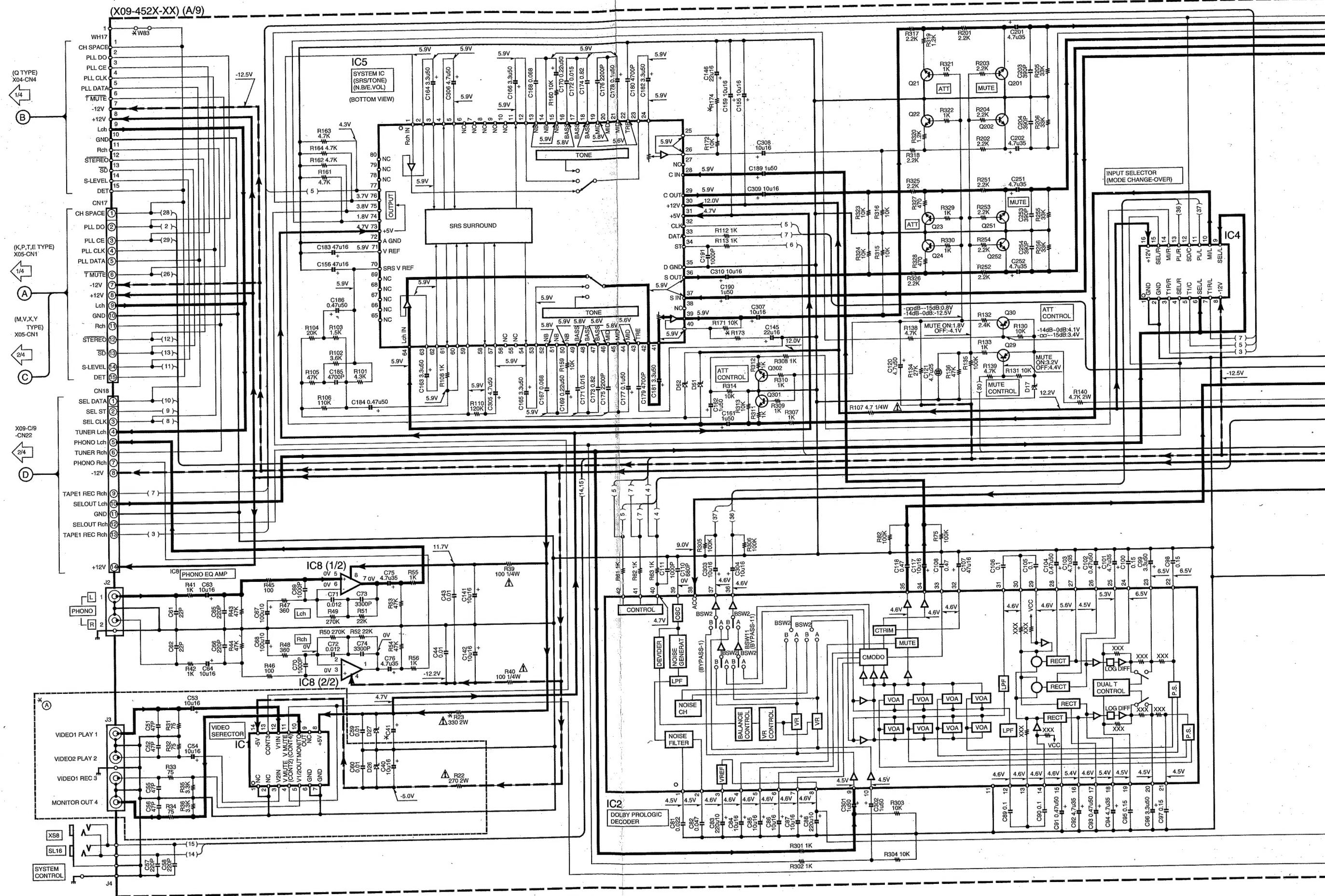


IC18 : NJU7313AL
IC19 : NJM4565D-D

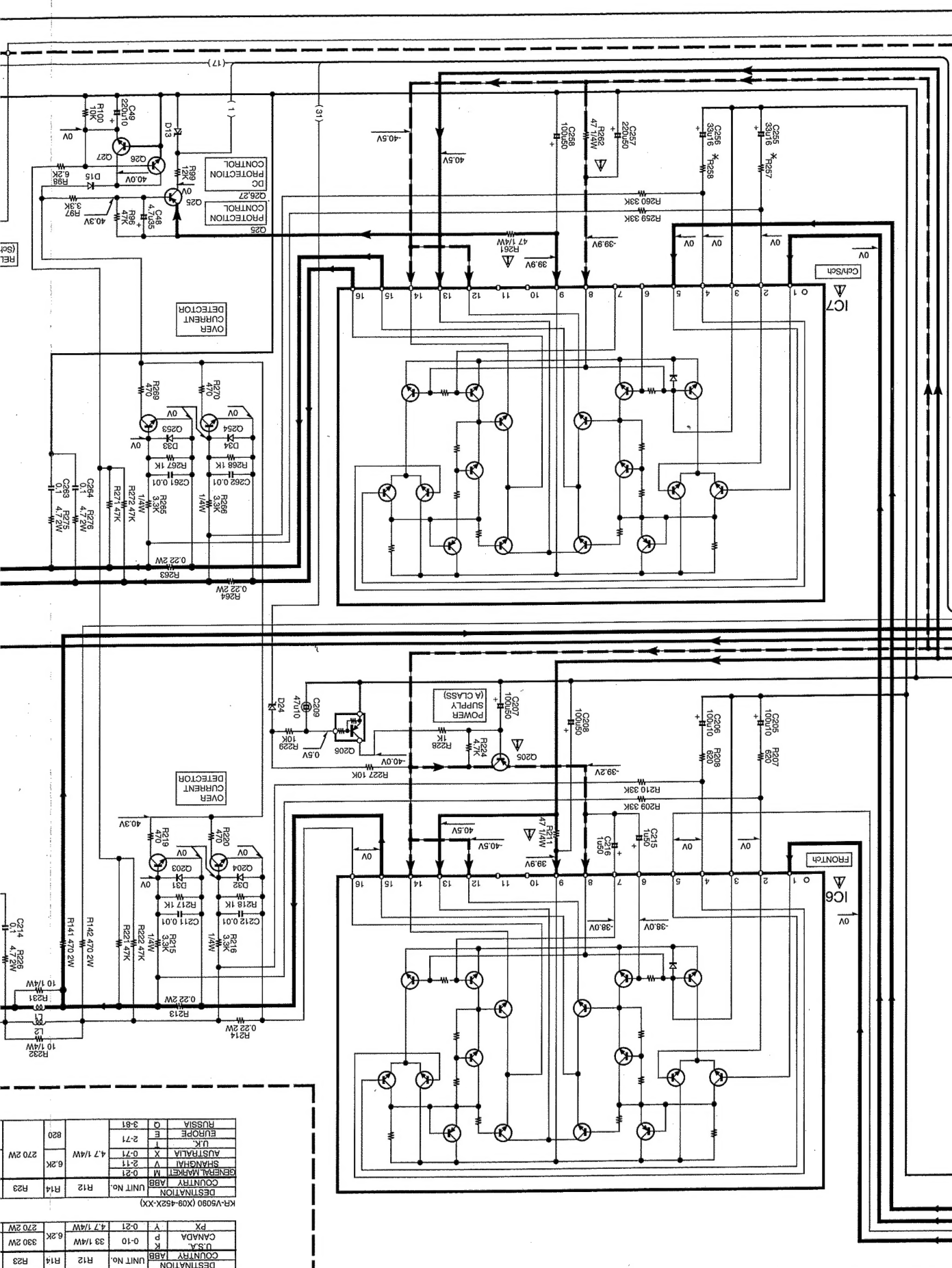
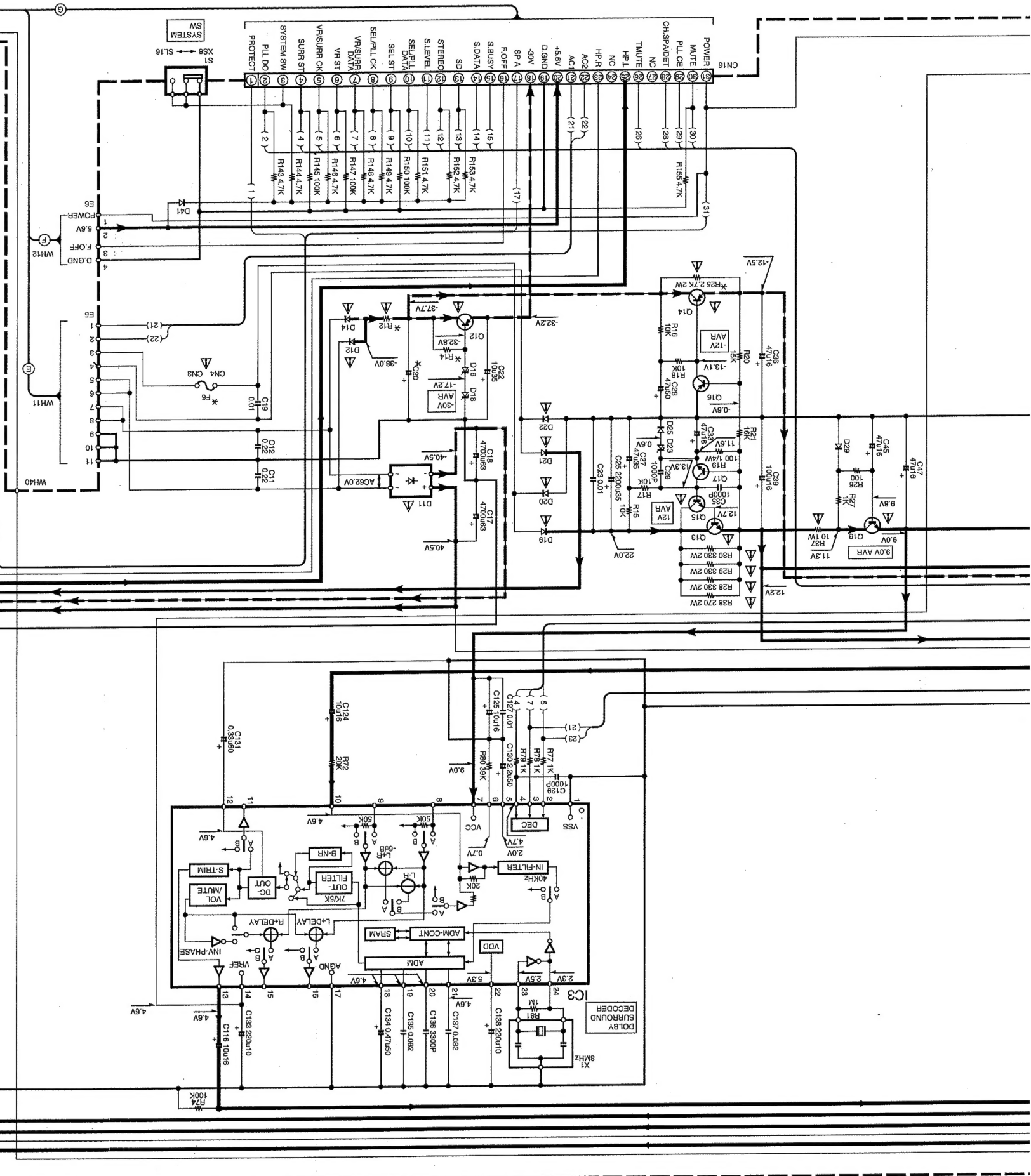
PX	Y	0-21	NO
	P	0-10	
CANADA	K		
U.S.A.	ABB.	No.	C451-462
COUNTRY	UNIT		
DESTINATION			

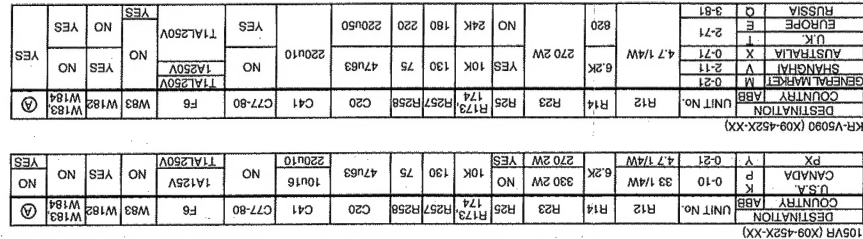
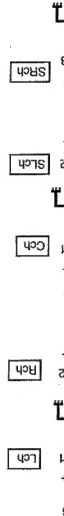
105VR (X09-452X-XX)
KR-V5090 (X09-452X-XX)



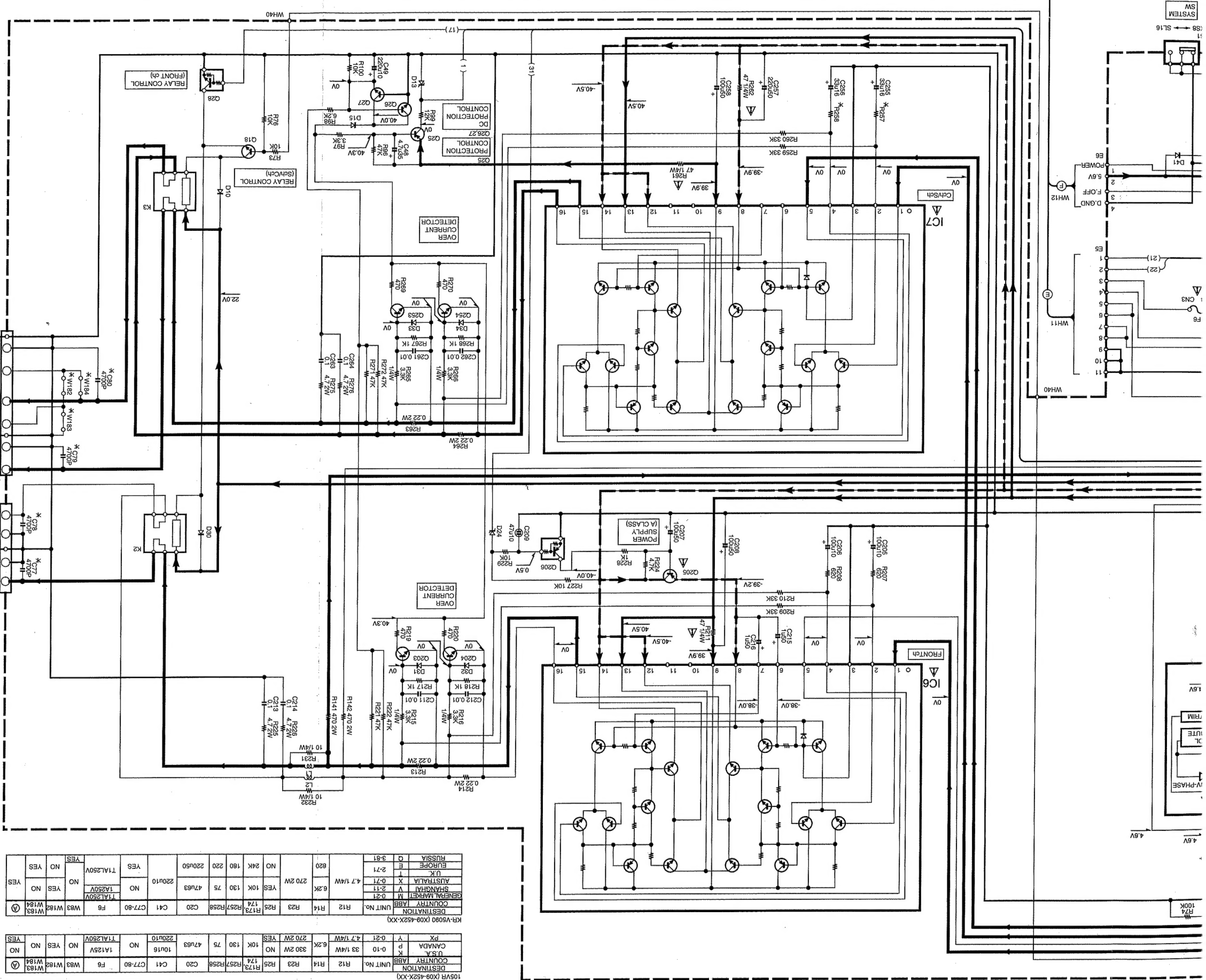


AZ
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BF
BG
BH

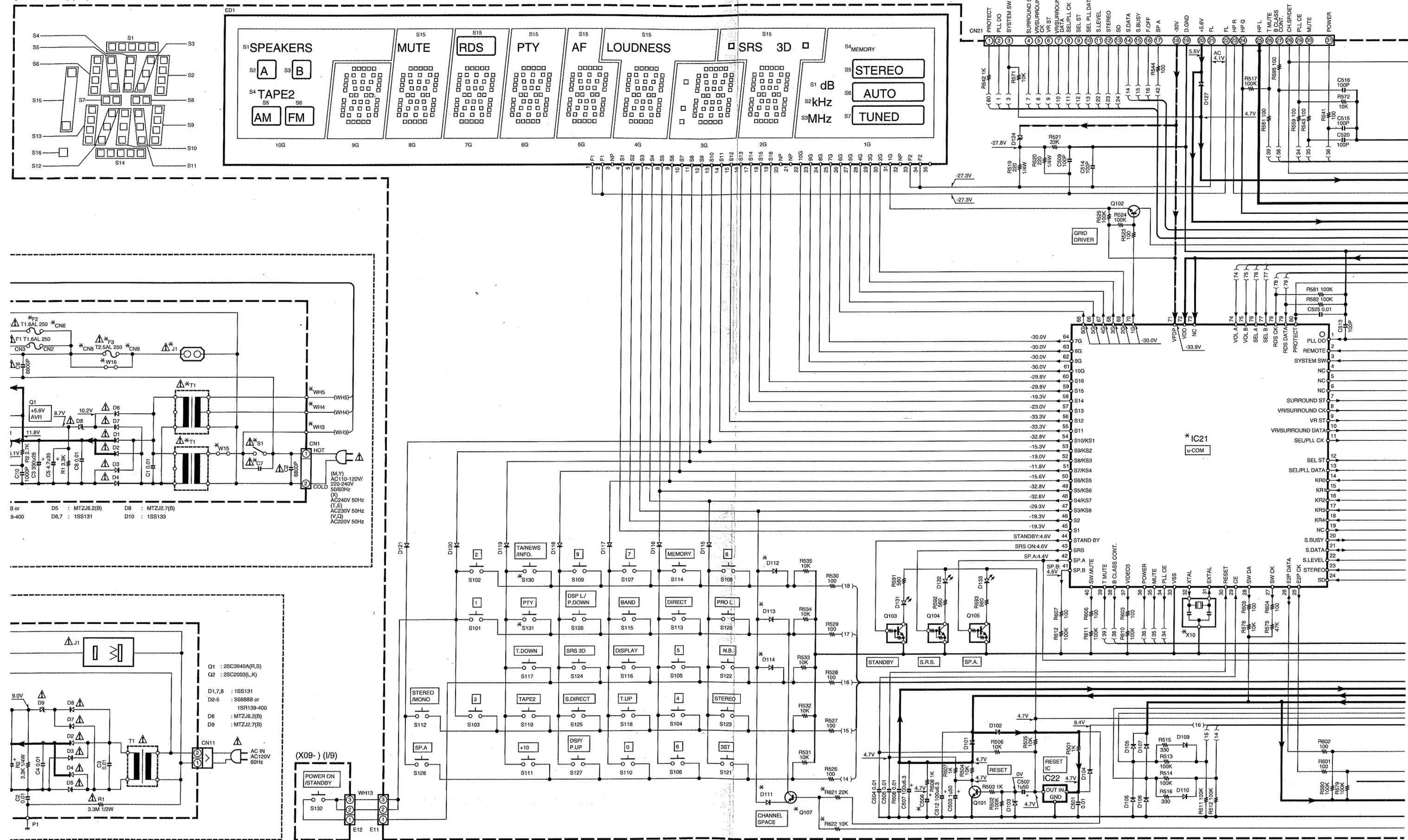


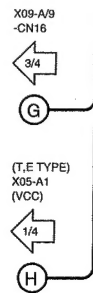


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



(X09-452X-XX) (B/9)





CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

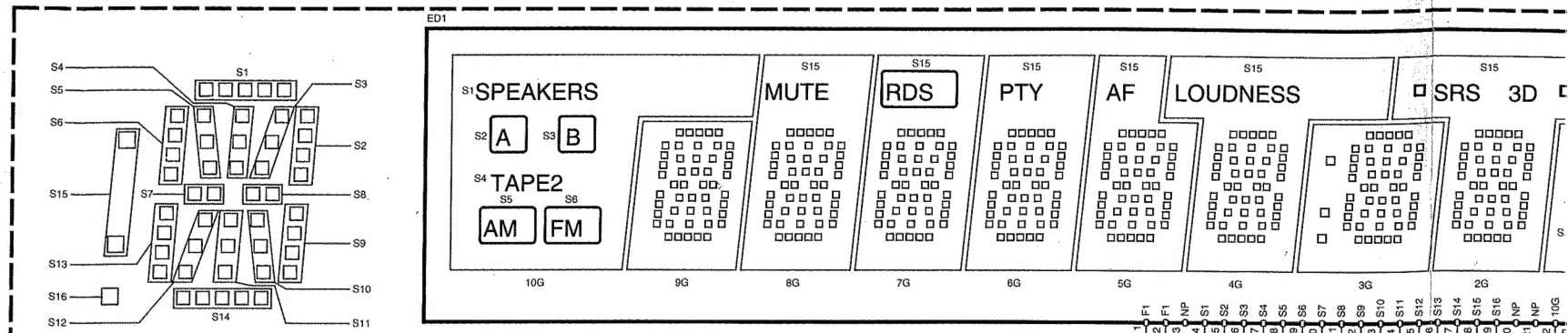
KR-V5090 (X13-745X-XX)

DESTINATION	UNIT	WH3-9	WH10	S1	S2	W14	W15	W16	W19	T1	F2	F3	CN6,7	CN8,9	C7	X13-D7	J1
COUNTRY	ABB	No.															
GENERAL MARKET	M	0-20	YES	NO	YES	NO	YES	NO	YES	L07-2128-05	YES	NO	YES	NO	NO	NO	E03-0305-05
SHANGHAI	V	2-11	NO	NO	YES	NO	YES	NO	NO	L07-2128-05	NO	NO	NO	NO	YES	YES	E03-0337-05
AUSTRALIA	X	0-71	NO	NO	YES	NO	YES	NO	NO	L07-2128-05	NO	NO	NO	NO	YES	YES	E03-0325-05
U.K.	T	0-51	NO	NO	YES	NO	YES	NO	NO	L07-2128-05	NO	NO	NO	NO	YES	YES	E03-0109-05
EUROPE	E	2-71	YES	NO	YES	NO	YES	NO	NO	L07-2128-05	YES	NO	YES	NO	NO	NO	E03-0305-05
RUSSIA	Q	2-71	YES	NO	YES	NO	YES	NO	NO	L07-2128-05	YES	NO	YES	NO	NO	NO	E03-0305-05

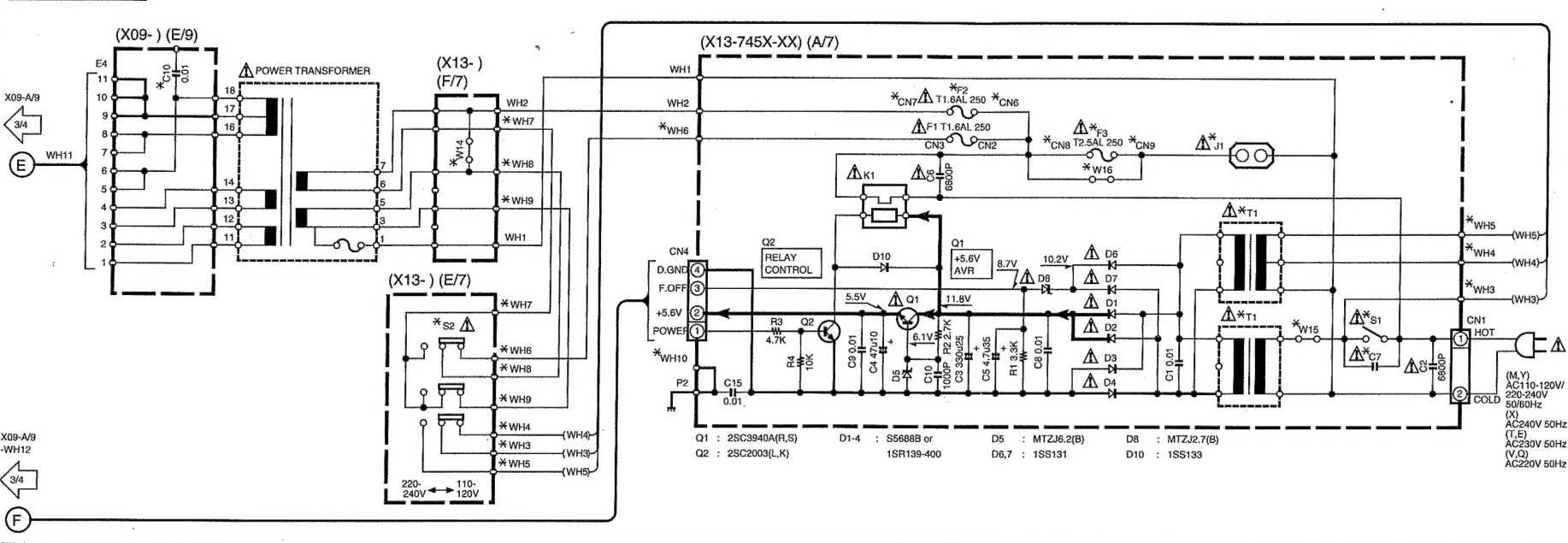
105VR (X13-745X-XX)

DESTINATION	UNIT	WH3-9	WH10	S1	S2	W14	W15	W16	W19	T1	F2	F3	CN6,7	CN8,9	C7	X13-D7	J1
COUNTRY	ABB	No.															
GENERAL MARKET	Y	2-91	YES	NO	NO	YES	NO	YES	NO	L07-2128-05	YES	NO	YES	NO	NO	NO	E03-0316-05

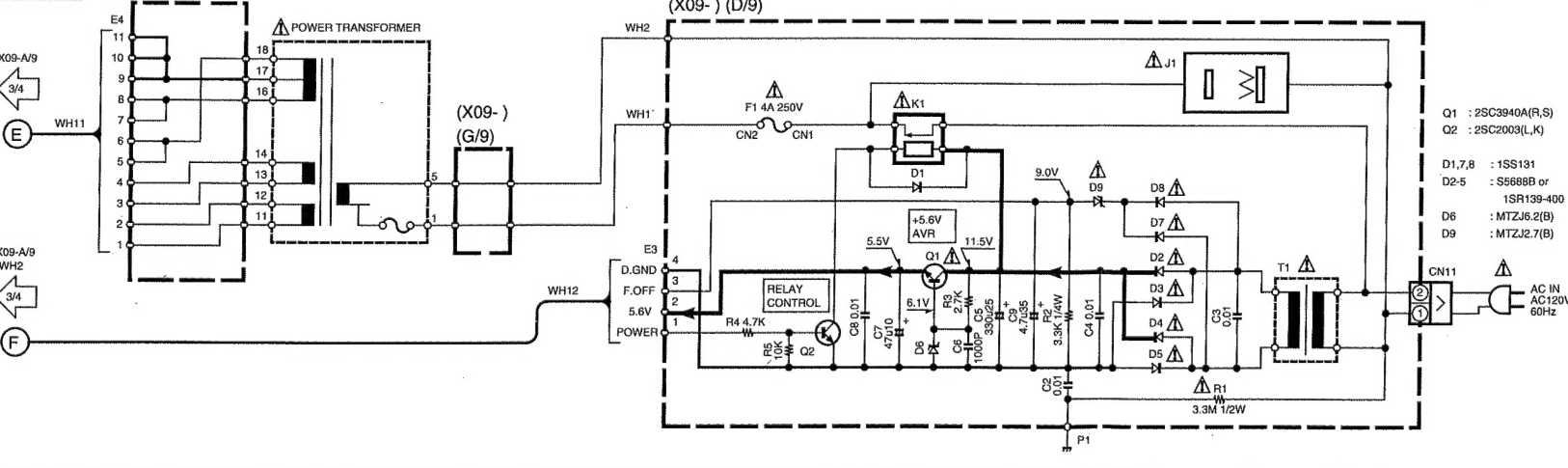
(X09-452X-XX) (B/9)



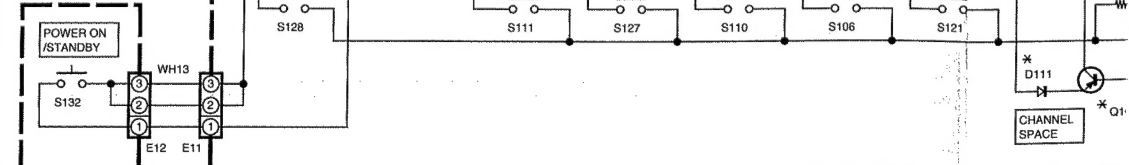
EXCEPT (K,P) TYPE



(K,P) TYPE



(X09-) (I/9)



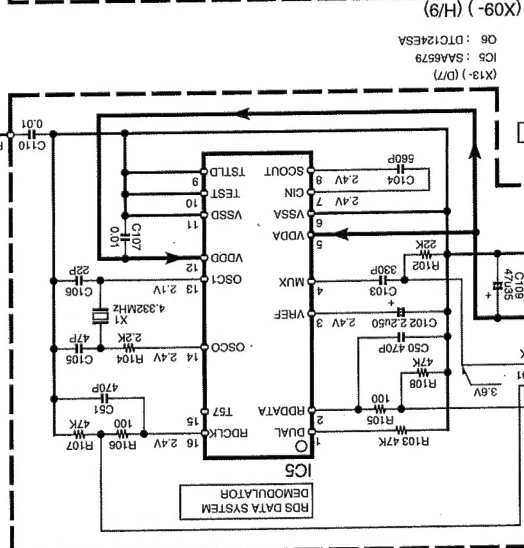
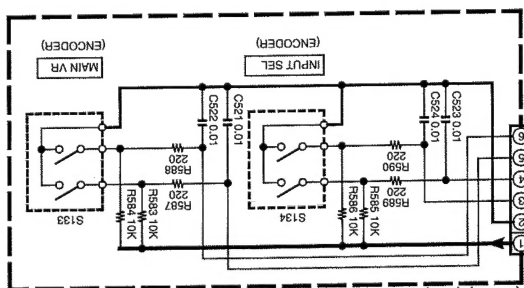
KR-V5090,105VR(M) (4/4)

DESTINATION	UNIT	IC21	IC23	Q107	D111	D113	S130	C506	C10	R510	R621	E16	WH16	X10
RUSSIA	Q	3-81	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	0.89MHz
EUROPE	E	2-71	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	0.89MHz
U.K.	T	2-71	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	0.89MHz
AUSTRALIA	X	0-71	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	0.89MHz
SHANGHAI	V	2-11	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	0.89MHz
GENERAL MARKET	M	0-21	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	0.89MHz
COUNTRY	ABB	NO	IC21	IC23	Q107	D111	D113	S130	C506	C10	R510	R621	E16	WH16
UNIT	NO	IC21	IC23	Q107	D111	D113	S130	C506	C10	R510	R621	E16	WH16	X10

DESTINATION	UNIT	IC21	IC23	Q107	D111	D113	S130	C506	C10	R510	R621	E16	WH16	WH22	X10
RUSSIA	Q	3-81	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	NO	0.89MHz
EUROPE	E	2-71	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	NO	0.89MHz
U.K.	T	2-71	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	NO	0.89MHz
AUSTRALIA	X	0-71	CXP8540-152Q	YES	NO	NO	NO	NO	0.047F5.5	330u6.3	NO	NO	NO	NO	0.89MHz
SHANGHAI	V	2-11	CXP8540-151Q	NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
GENERAL MARKET	M	0-21	CXP8540-151Q	NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
COUNTRY	ABB	NO	IC21	IC23	Q107	D111	D113	S130	C506	C10	R510	R621	E16	WH16	WH22
UNIT	NO	IC21	IC23	Q107	D111	D113	S130	C506	C10	R510	R621	E16	WH16	WH22	X10

--- B LINE
--- +B LINE
--- GND LINE
--- SIGNAL LINE

A1
Q107 : W02-2583-05
Q103-105 : DTC143TSA
D124 : 25C1740S(Q,P)
D111-121 : MTJ5.6(b)
D113-133 : 1SS131
D101-110,127 : 1SS133
IC23 : X24C04P
IC21 : S-80BD-Z
(X09-) (B/9)



(X13-) (D/7)

IC5 : SA8579
Q6 : DTC124ESA

(X09-) (H/9)

(X13-) (D/7)

(X09-) (F/9)

(X13-) (D/7)

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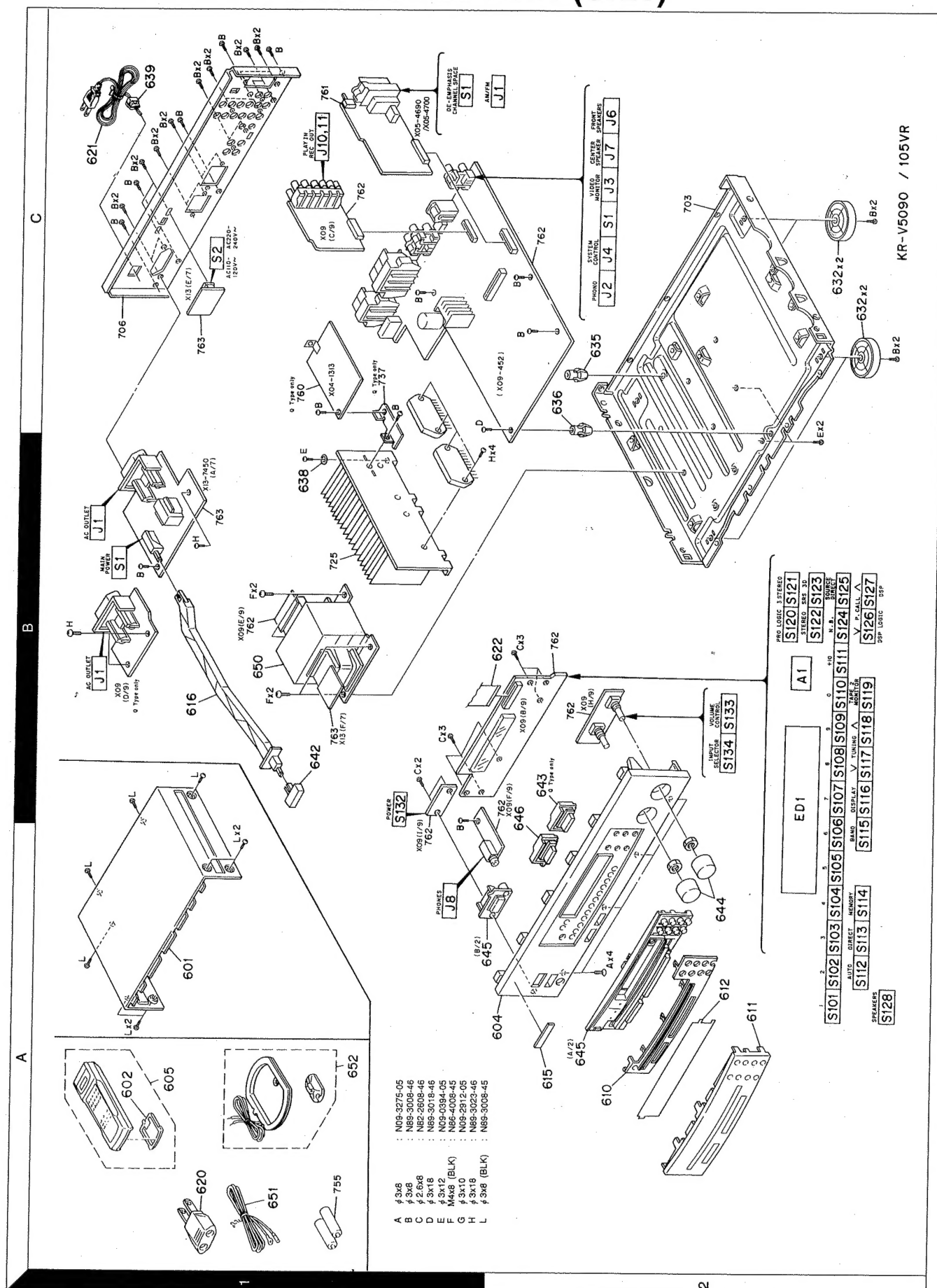
(X13-) (D/7)

(X09-) (H/9)

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EXPLODED VIEW (UNIT)



KR-V5090 / 105VR